ELSEVIER

Biophysical Chemistry 58 (1996) 369–371

Biophysical Chemistry

Author Index to Volume 58

Abundo, M., Accardi, L., Finazzi Agrò, A., Mei, G. and Rosato, N.
A stochastic model for the sigmoidal behaviour of cooperative biological systems 313
Accardi, L., see Abundo, M. 313
Ataka, M., see Minezaki, Y. 355

Bailly, C., see Colson, P. 125
Binder, H., see Lantzsch, G. 289
Birla, L., see Sahini, V.Em. 245
Borst, J.W., see Pap, E.H.W. 255
Böttcher, A., see Groll, R. 53
Boye, S., see Schlicht, L. 39
Brill, A.S., see Yang, A.-S. 341

Cendra, H., see Fernández, A. 335
Chen, J. and Huang, Z.
Analytical model for effects of shear rate on rouleau size and blood viscosity 273
Chen, T., see Pliquett, U.F. 185
Colson, P., Bailly, C. and Houssier, C.
Electric linear dichroism as a new tool to study sequence preference in drug binding to DNA 125

Diaconu, C., see Sahini, V.Em. 245
Dumitrescu, M., see Sahini, V.Em. 245
Dunford, H.B., see Krylov, S.N. 325

Egmond, M.R., see Weisenborn, P.C.M. 281
Eicke, H.-F. and Meier, W.
Interfacial charge transport in water-in-oil microemulsions stabilized by ionic–non-ionic surfactant mixtures 29

Fernández, A. and Cendra, H.
In vitro RNA folding: the principle of sequential minimization of entropy loss at work 335
Finazzi Agrò, A., see Abundo, M. 313

Garnier, N., Genest, D. and Genest, M.
Correlated motions and propagation of the effect of a local conformational change in the transmembrane helix of the c-*erb*B2 encoded protein and in its V659E mutant, studied by molecular dynamics simulations 225
Genest, D., see Garnier, N. 225
Genest, M., see Garnier, N. 225

Groll, R., Böttcher, A., Jäger, J. and Holzwarth, J.F.
Temperature dependent intermediate structures during the main phase transition of dimyristoyl phosphatidylcholine vesicles a combined iodine laser–temperature jump and time resolved cryo-electron microscopy study 53

Hatori, K., Honda, H. and Matsuno, K.
ATP-dependent fluctuations of single actin filaments in vitro 267
Heerklotz, H., see Lantzsch, G. 289
Hess, B. and Mikhailov, A.
Transition from molecular chaos to coherent spiking of enzymic reactions in small spatial volumes 365
Holzwarth, J.F., see Groll, R. 53
Honda, H., see Hatori, K. 267
Houssier, C., see Colson, P. 125
Huang, Z., see Chen, J. 273

Ilgenfritz, G., see Schlicht, L. 39
Ivanova, Tz., see Vassilieff, C.S. 97

Jäger, J., see Groll, R. 53

Kakorin, S., Stoylov, S.P. and Neumann, E.
Electro-optics of membrane electroporation in diphenylhexatriene-doped lipid bilayer vesicles 109
Katsura, T., see Minezaki, Y. 355
Ketelaars, M., see Pap, E.H.W. 255
Klose, G., see Lantzsch, G. 289
Korzeniewski, B.
Simulation of oxidative phosphorylation in hepatocytes 215
Krylov, S.N. and Dunford, H.B.
Evidence for a free radical chain mechanism in the reaction between peroxidase and indole-3-acetic acid at neutral pH 325
Kupryszewski, G., see Wiczk, W. 303

Lahiri, A. and Majumdar, R.
Ligand binding isotherm for DNA in the presence of supercoil-induced non-B form: a theoretical analysis 239
Langer, R., see Pliquett, U.F. 185
Lantzsch, G., Binder, H., Heerklotz, H., Wendling, M. and Klose, G.
Surface areas and packing constraints in POPC/$C_{12}EO_n$ membranes. A time-resolved fluorescence study 289

Lipgens, S., see Schlicht, L. 39
Liwo, A., see Wiczk, W. 303
Łubkowski, J., see Wiczk, W. 303

Majumdar, R., see Lahiri, A. 239
Manev, E.D., see Vassilieff, C.S. 97
Matsumoto, M.
Transient electric birefringence of colloidal particles immersed in shear flow. Part II. The initial response under the action of a rectangular electric pulse and the behavior at a low alternating electric field 173
Matsuno, K., see Hatori, K. 267
Meder, H., see Weisenborn, P.C.M. 281
Mei, G., see Abundo, M. 313
Meier, W., see Eicke, H.-F. 29
Mikhailov, A., see Hess, B. 365
Minezaki, Y., Niimura, N., Ataka, M. and Katsura, T.
Small angle neutron scattering from lysozyme solutions in unsaturated and supersaturated states (SANS from lysozyme solutions) 355

Neumann, E., see Kakorin, S. 109
Neumann, E., see Rauer, B. 3
Niimura, N., see Minezaki, Y. 355

Oldziej, S., see Wiczk, W. 303

Panaiotov, I., see Vassilieff, C.S. 97
Pap, E.H.W., Ketelaars, M., Borst, J.W., Van Hoek, A. and Visser, A.J.W.G.
Reorientational properties of fluorescent analogues of the protein kinase C cofactors diacylglycerol and phorbol ester 255
Pliquett, F. and Pliquett, U.
Passive electrical properties of human stratum corneum in vitro depending on time after separation 205
Pliquett, U., see Pliquett, F. 205
Pliquett, U.F., Zewert, T.E., Chen, T., Langer, R. and Weaver, J.C.
Imaging of fluorescent molecule and small ion transport through human stratum corneum during high voltage pulsing: localized transport regions are involved 185
Pluen, A., see Sturm, J. 151
Pörschke, D., see Schönknecht, T. 21
Proust, J.E., see Vassilieff, C.S. 97

Rauer, B., Neumann, E., Widengren, J. and Rigler, R.
Fluorescence correlation spectrometry of the interaction kinetics of tetramethylrhodamin α-bungarotoxin with *Torpedo californica* acetylcholine receptor 3
Rekowski, P., see Wiczk, W. 303
Rex, S.
Pore formation induced by the peptide melittin in different lipid vesicle membranes 75
Rigler, R., see Rauer, B. 3
Rosato, N., see Abundo, M. 313
Runge, F., see Schlicht, L. 39

Sahini, V.Em., Dumitrescu, M., Volanschi, E., Birla, L. and Diaconu, C.
Spectral and interferometrical study of the interaction of haemin with glutathione 245
Schlicht, L., Spilgies, J.-H., Runge, F., Lipgens, S., Boye, S., Schübel, D. and Ilgenfritz, G.
Temperature-, electric field- and solute-induced percolation in water-in-oil microemulsions 39
Schönknecht, T. and Pörschke, D.
Electrooptical analysis of α-chymotrypsin at physiological salt concentration 21
Schübel, D., see Schlicht, L. 39
Schürholz, T.
Critical dependence of the solubilization of lipid vesicles by the detergent CHAPS on the lipid composition. Functional reconstitution of the nicotinic acetylcholine receptor into preformed vesicles above the critical micellization concentration 87
Schwarz, G.
Electrical interactions of membrane active peptides at lipid/water interfaces 67
Spilgies, J.-H., see Schlicht, L. 39
Stellwagen, N.C.
Electric birefringence of kilobase-sized DNA molecules 117
Stoylov, S.P., Stoylova, E., Sturm, J. and Weill, G.
Electric birefringence of polytetrafluoroethylene particles in agarose gels 157
Stoylov, S.P.
Electric polarization of polyelectrolyte and colloid media: dielectric versus electro-optic approach 165
Stoylov, S.P., see Kakorin, S. 109
Stoylova, E., see Stoylov, S.P. 157
Sturm, J., Pluen, A. and Weill, G.
Dynamics of single-stranded DNA in polyacrylamide gels during pulsed field gel electrophoresis. A birefringence study 151
Sturm, J., see Stoylov, S.P. 157

Takashima, S.
Measurement and computation of the dipole moment of globular proteins III: Chymotrypsin 13
Tinker, M.H., see Windsor, S.A. 141

Van Hoek, A., see Pap, E.H.W. 255
Van Hoek, A., see Weisenborn, P.C.M. 281
Vassilieff, C.S., Panaiotov, I., Manev, E.D., Proust, J.E. and Ivanova, Tz.
Kinetics of liposome disintegration from foam film studies: Effect of the lipid bilayer phase state 97
Visser, A.J.W.G., see Pap, E.H.W. 255
Visser, T.J.W.G., see Weisenborn, P.C.M. 281
Volanschi, E., see Sahini, V.Em. 245

Weaver, J.C., see Pliquett, U.F. 185
Weill, G., see Stoylov, S.P. 157
Weill, G., see Sturm, J. 151
Weisenborn, P.C.M., Meder, H., Egmond, M.R., Visser, T.J.W.G. and Van Hoek, A.

Photophysics of the single tryptophan residue in *Fusarium solani* Cutinase: Evidence for the occurrence of conformational substates with unusual fluorescence behaviour 281

Wendling, M., see Lantzsch, G. 289

Wiczk, W., Rekowski, P., Kupryszewski, G., Łubkowski, J., Oldziej, S. and Liwo, A.
Fluorescence and Monte Carlo conformational studies of the (1–15)galanin amide fragment 303

Widengren, J., see Rauer, B. 3

Windsor, S.A. and Tinker, M.H.
Binding of biologically important molecules to DNA, probed using electro-fluorescence polarization spectroscopy 141

Yang, A.-S. and Brill, A.S.
Thermal access to amplified chemical potential and the determination of equilibrium constants in protein solutions at subfreezing temperatures 341

Zewert, T.E., see Pliquett, U.F. 185

ELSEVIER

Biophysical Chemistry 58 (1996) 372–378

Biophysical Chemistry

Subject Index to Volume 58

Acetylcholine receptor
Fluorescence correlation spectroscopy; α-Bungarotoxin; Fluctuation kinetics (Rauer, B. 3)

Actin
ATP; Fluctuation; Myosin; Sliding (Hatori, K. 267)

Agarose gel
Electric birefringence; Fibers; Electrophoretic orientation; Dipolar orientation; Electro-optic anomaly (Stoylov, S.P. 157)

Aggregates
Small angle neutron scattering; Small angle X-ray scattering; Lysozyme; Pre-crystallization; Time evolution (Minezaki, Y. 355)

Aggregation
Viscosity of blood; Colloid coagulation; Rouleaux; Blood; Red cells; Shear rate (Chen, J. 273)

Allosteric activation
Enzymes; Molecular chaos; Coherent spiking (Hess, B. 365)

Anti-cancer agents
Electro-fluorescence; DNA binding; Polarized fluorescence; Carcinogens (Windsor, S.A. 141)

Association isotherms
Liposomes; Mastoparan; Partition coefficients; Salt effects; Thermodynamics (Schwarz, G. 67)

ATP
Actin; Fluctuation; Myosin; Sliding (Hatori, K. 267)

Biopolymers
RNA; Folding; Entropy loss, sequential minimization (Fernández, A. 335)

Birefringence, electric
Electric polarizability; Dielectric dispersion; Light scattering, electric; Polyelectrolytes; Colloids; Escherichia coli; Poly(tetrafluoroethylene) (Stoylov, S.P. 165)

Blood
Haemin; Glutathione; Spectrophotometry; Interferometry; Erythrocytes (Sahini, V.Em. 245)

Viscosity of blood; Colloid coagulation; Rouleaux; Red cells; Shear rate; Aggregation (Chen, J. 273)

Bound water
Electron paramagnetic resonance; Fluoride complex; Freezing effects; Heme proteins; Thermal activation (Yang, A.-S. 341)

c-*erb*B2 protein
Molecular dynamics simulations; Transmembrane helix; Correlated motions; Signal propagation (Garnier, N. 225)

α-Bungarotoxin
Fluorescence correlation spectroscopy; Acetylcholine receptor; Fluctuation kinetics (Rauer, B. 3)

Carboxyfluorescein
Marker efflux; Phosphatidylcholine; FITC-dextran; Fusion; Dynamic light scattering (Rex, S. 75)

Carcinogens
Electro-fluorescence; DNA binding; Polarized fluorescence; Anticancer agents (Windsor, S.A. 141)

Cholesterol
Phospholipids; Light scattering; Electron microscopy; Lateral pressure; Packing constraints (Schürholz, T. 87)

Chymotrypsin
Dipole moment; Dielectric constant (Takashima, S. 13)

Coherent spiking
Enzymes; Molecular chaos; Allosteric activation (Hess, B. 365)

Colloid coagulation
Viscosity of blood; Rouleaux; Blood; Red cells; Shear rate; Aggregation (Chen, J. 273)

Colloids
Electric polarizability; Dielectric dispersion; Birefringence, electric; Light scattering, electric; Polyelectrolytes; Escherichia coli; Poly(tetrafluoroethylene) (Stoylov, S.P. 165)

Transient electric birefringence (Matsumoto, M. 173)

Computer simulation
Oxidative phosphorylation; Dynamic model; Metabolic control analysis; Metabolic regulation (Korzeniewski, B. 215)

Stochastic model; Markov chain; Cooperativity; Sigmoidal transition; Fractal dimension (Abundo, M. 313)

Conformation
Cutinase; Lipase; Fluorescence (Weisenborn, P.C.M. 281)

Conformational transitions
DNA–ligand interaction; Supercoiled DNA; Non-B DNA; Two-state model (Lahiri, A. 239)

Cooperativity
Stochastic model; Markov chain; Sigmoidal transition; Fractal dimension; Computer simulation (Abundo, M. 313)

Correlated motions
Molecular dynamics simulations; Transmembrane helix; c-*erb*B2 protein; Signal propagation (Garnier, N. 225)

Critical packing parameter
Detergents, non-ionic; Lipid bilayer; Resonance energy transfer; Fluorescence, time-resolved; Surface area (Lantzsch, G. 289)

Cryo-electron microscopy
Dimyristoyl phosphatidylcholine vesicles; Lipid-phase transition; Laser temperature jump; Vitrified aqueous lamella (Groll, R. 53)

Cutinase
Lipase; Fluorescence; Conformation (Weisenborn, P.C.M. 281)

Detergents, non-ionic
Lipid bilayer; Resonance energy transfer; Fluorescence, time-resolved; Surface area; Critical packing parameter (Lantzsch, G. 289)

Diacylglycerol
Protein kinase C; Vesicles; Micelles; Fluorimetry; Phorbol; Reorientation (Pap, E.H.W. 255)

Dielectric constant
Chymotrypsin; Dipole moment (Takashima, S. 13)

Dielectric dispersion
Electric polarizability; Birefringence, electric; Light scattering, electric; Polyelectrolytes; Colloids; Escherichia coli; Poly(tetrafluoroethylene) (Stoylov, S.P. 165)

Dimyristoyl phosphatidylcholine vesicles
Lipid-phase transition; Laser temperature jump; Cryo-electron microscopy; Vitrified aqueous lamella (Groll, R. 53)

Diphenylhexatriene
Vesicles; Electroporation; Turbidity dichroism; Lipids; Membranes (Kakorin, S. 109)

Dipolar orientation
Electric birefringence; Fibers; Agarose gel; Electrophoretic orientation; Electro-optic anomaly (Stoylov, S.P. 157)

Dipole moment
Chymotrypsin; Dielectric constant (Takashima, S. 13)

Electric dichroism; Rotational relaxation; Reduced dichroism (Schönknecht, T. 21)

DNA
Review; Electric linear dichroism; Intercalation; Groove binding; Sequence selectivity (Colson, P. 125)

DNA bending
Electric birefringence; DNA relaxation times; Dynamic persistence (Stellwagen, N.C. 117)

DNA binding
Electro-fluorescence; Polarized fluorescence; Anti-cancer agents; Carcinogens (Windsor, S.A. 141)

DNA–ligand interaction
Supercoiled DNA; Conformational transitions; Non-B DNA; Two-state model (Lahiri, A. 239)

DNA relaxation times
Electric birefringence; DNA bending; Dynamic persistence (Stellwagen, N.C. 117)

DNA separation
Sequencing; Gel electrophoresis; Reptation; Polyacrylamide gels (Sturm, J. 151)

Dynamic light scattering
Marker efflux; Phosphatidylcholine; Carboxyfluorescein; FITC-dextran; Fusion (Rex, S. 75)

Dynamic model
Oxidative phosphorylation; Computer simulation; Metabolic control analysis; Metabolic regulation (Korzeniewski, B. 215)

Dynamic persistence
Electric birefringence; DNA relaxation times; DNA bending (Stellwagen, N.C. 117)

Dynamics of electric birefringence
Microemulsion; Percolation; Electric field; Gelatin (Schlicht, L. 39)

Electrical impedance
Skin; Passive electrical properties; Time dependence (Pliquett, F. 205)

Electric birefringence
DNA relaxation times; DNA bending; Dynamic persistence (Stellwagen, N.C. 117)

Fibers; Agarose gel; Electrophoretic orientation; Dipolar orientation; Electro-optic anomaly (Stoylov, S.P. 157)

Electric dichroism
Dipole moment; Rotational relaxation; Reduced dichroism (Schönknecht, T. 21)

Electric field
Microemulsion; Percolation; Dynamics of electric birefringence; Gelatin (Schlicht, L. 39)

Electric linear dichroism
Review; Intercalation; Groove binding; DNA; Sequence selectivity (Colson, P. 125)

Electric polarizability
Dielectric dispersion; Birefringence, electric; Light scattering, electric; Polyelectrolytes; Colloids; Escherichia coli; Poly(tetrafluoroethylene) (Stoylov, S.P. 165)

Electro-fluorescence
DNA binding; Polarized fluorescence; Anti-cancer agents; Carcinogens (Windsor, S.A. 141)

Electron microscopy
Phospholipids; Cholesterol; Light scattering; Lateral pressure; Packing constraints (Schürholz, T. 87)

Electron paramagnetic resonance
Bound water; Fluoride complex; Freezing effects; Heme proteins; Thermal activation (Yang, A.-S. 341)

Electro-optic anomaly
Electric birefringence; Fibers; Agarose gel; Electrophoretic orientation; Dipolar orientation (Stoylov, S.P. 157)

Electrophoretic orientation
Electric birefringence; Fibers; Agarose gel; Dipolar orientation; Electro-optic anomaly (Stoylov, S.P. 157)

Electroporation
Vesicles; Turbidity dichroism; Lipids; Membranes; Diphenylhexatriene (Kakorin, S. 109)

Transdermal transport; Fluorescence microscopy (Pliquett, U.F. 185)

Energy transfer
Galanin; Molecular mechanics; Tyrosine fluorescence (Wiczk, W. 303)

Entropy loss, sequential minimization
RNA; Folding; Biopolymers (Fernández, A. 335)

Enzymes
Molecular chaos; Coherent spiking; Allosteric activation (Hess, B. 365)

Erythrocytes
Blood; Haemin; Glutathione; Spectrophotometry; Interferometry (Sahini, V.Em. 245)

Escherichia coli
Electric polarizability; Dielectric dispersion; Birefringence, electric; Light scattering, electric; Polyelectrolytes; Colloids; Poly(tetrafluoroethylene) (Stoylov, S.P. 165)

Fibers
Electric birefringence; Agarose gel; Electrophoretic orientation; Dipolar orientation; Electro-optic anomaly (Stoylov, S.P. 157)

FITC-dextran
Marker efflux; Phosphatidylcholine; Carboxyfluorescein; Fusion; Dynamic light scattering (Rex, S. 75)

Fluctuation
Actin; ATP; Myosin; Sliding (Hatori, K. 267)

Fluctuation kinetics
Fluorescence correlation spectroscopy; Acetylcholine receptor; α-Bungarotoxin (Rauer, B. 3)

Fluorescence
Cutinase; Lipase; Conformation (Weisenborn, P.C.M. 281)

Fluorescence correlation spectroscopy
Acetylcholine receptor; α-Bungarotoxin; Fluctuation kinetics (Rauer, B. 3)

Fluorescence microscopy
Transdermal transport; Electroporation (Pliquett, U.F. 185)

Fluorescence, time-resolved
Detergents, non-ionic; Lipid bilayer; Resonance energy transfer; Surface area; Critical packing parameter (Lantzsch, G. 289)

Fluoride complex
Bound water; Electron paramagnetic resonance; Freezing effects; Heme proteins; Thermal activation (Yang, A.-S. 341)

Fluorimetry
Protein kinase C; Vesicles; Micelles; Diacylglycerol; Phorbol; Reorientation (Pap, E.H.W. 255)

Folding
RNA; Entropy loss, sequential minimization; Biopolymers (Fernández, A. 335)

Fractal dimension
Stochastic model; Markov chain; Cooperativity; Sigmoidal transition; Computer simulation (Abundo, M. 313)

Free radical chain reaction
Horseradish peroxidase; Indole-3-acetic acid oxidation; Transient state kinetics; Oxygen consumption; P-670 (Krylov, S.N. 325)

Freezing effects
Bound water; Electron paramagnetic resonance; Fluoride complex; Heme proteins; Thermal activation (Yang, A.-S. 341)

Fusion
Marker efflux; Phosphatidylcholine; Carboxyfluorescein; FITC-dextran; Dynamic light scattering (Rex, S. 75)

Galanin
Energy transfer; Molecular mechanics; Tyrosine fluorescence (Wiczk, W. 303)

Gelatin
Microemulsion; Percolation; Electric field; Dynamics of electric birefringence (Schlicht, L. 39)

Gel electrophoresis
Sequencing; Reptation; DNA separation; Polyacrylamide gels (Sturm, J. 151)

Glutathione
Blood; Haemin; Spectrophotometry; Interferometry; Erythrocytes (Sahini, V.Em. 245)

Groove binding
Review; Electric linear dichroism; Intercalation; DNA; Sequence selectivity (Colson, P. 125)

Haemin
Blood; Glutathione; Spectrophotometry; Interferometry; Erythrocytes (Sahini, V.Em. 245)

Heme proteins
Bound water; Electron paramagnetic resonance; Fluoride complex; Freezing effects; Thermal activation (Yang, A.-S. 341)

Horseradish peroxidase
Indole-3-acetic acid oxidation; Free radical chain reaction; Transient state kinetics; Oxygen consumption; P-670 (Krylov, S.N. 325)

Indole-3-acetic acid oxidation
Horseradish peroxidase; Free radical chain reaction; Transient state kinetics; Oxygen consumption; P-670 (Krylov, S.N. 325)

Intercalation
Review; Electric linear dichroism; Groove binding; DNA; Sequence selectivity (Colson, P. 125)

Interfacial charge transport
Water-in-oil microemulsions; Surfactants; Nanodroplets; Ion mobility (Eicke, H.-F. 29)

Interferometry
Blood; Haemin; Glutathione; Spectrophotometry; Erythrocytes (Sahini, V.Em. 245)

Ion mobility
Water-in-oil microemulsions; Interfacial charge transport; Surfactants; Nanodroplets (Eicke, H.-F. 29)

Laser temperature jump
Dimyristoyl phosphatidylcholine vesicles; Lipid-phase transition; Cryo-electron microscopy; Vitrified aqueous lamella (Groll, R. 53)

Lateral pressure
Phospholipids; Cholesterol; Light scattering; Electron microscopy; Packing constraints (Schürholz, T. 87)

Light scattering
Phospholipids; Cholesterol; Electron microscopy; Lateral pressure; Packing constraints (Schürholz, T. 87)

Light scattering, electric
Electric polarizability; Dielectric dispersion; Birefringence, electric; Polyelectrolytes; Colloids; Escherichia coli; Poly(tetrafluoroethylene) (Stoylov, S.P. 165)

Lipase
Cutinase; Fluorescence; Conformation (Weisenborn, P.C.M. 281)

Lipid bilayer
Detergents, non-ionic; Resonance energy transfer; Fluorescence, time-resolved; Surface area; Critical packing parameter (Lantzsch, G. 289)

Lipid-phase transition
Dimyristoyl phosphatidylcholine vesicles; Laser temperature jump; Cryo-electron microscopy; Vitrified aqueous lamella (Groll, R. 53)

Lipids
Vesicles; Electroporation; Turbidity dichroism; Membranes; Diphenylhexatriene (Kakorin, S. 109)

Liposomes
Association isotherms; Mastoparan; Partition coefficients; Salt effects; Thermodynamics (Schwarz, G. 67)

Thin liquid film; Marangoni–Gibbs effects; Phase transition temperature (Vassilieff, C.S. 97)

Lysozyme
Small angle neutron scattering; Small angle X-ray scattering; Pre-crystallization; Aggregates; Time evolution (Minezaki, Y. 355)

Marangoni–Gibbs effects
Liposomes; Thin liquid film; Phase transition temperature (Vassilieff, C.S. 97)

Marker efflux
Phosphatidylcholine; Carboxyfluorescein; FITC-dextran; Fusion; Dynamic light scattering (Rex, S. 75)

Markov chain
Stochastic model; Cooperativity; Sigmoidal transition; Fractal dimension; Computer simulation (Abundo, M. 313)

Mastoparan
Association isotherms; Liposomes; Partition coefficients; Salt effects; Thermodynamics (Schwarz, G. 67)

Membranes
Vesicles; Electroporation; Turbidity dichroism; Lipids; Diphenylhexatriene (Kakorin, S. 109)

Metabolic control analysis
Oxidative phosphorylation; Dynamic model; Computer simulation; Metabolic regulation (Korzeniewski, B. 215)

Metabolic regulation
Oxidative phosphorylation; Dynamic model; Computer simulation; Metabolic control analysis (Korzeniewski, B. 215)

Micelles
Protein kinase C; Vesicles; Fluorimetry; Diacylglycerol; Phorbol; Reorientation (Pap, E.H.W. 255)

Microemulsion
Percolation; Electric field; Dynamics of electric birefringence; Gelatin (Schlicht, L. 39)

Molecular chaos
Enzymes; Coherent spiking; Allosteric activation (Hess, B. 365)

Molecular dynamics simulations
Transmembrane helix; c-*erb*B2 protein; Correlated motions; Signal propagation (Garnier, N. 225)

Molecular mechanics
Galanin; Energy transfer; Tyrosine fluorescence (Wiczk, W. 303)

Myosin
Actin; ATP; Fluctuation; Sliding (Hatori, K. 267)

Nanodroplets
Water-in-oil microemulsions; Interfacial charge transport; Surfactants; Ion mobility (Eicke, H.-F. 29)

Non-B DNA
DNA–ligand interaction; Supercoiled DNA; Conformational transitions; Two-state model (Lahiri, A. 239)

Oxidative phosphorylation
Dynamic model; Computer simulation; Metabolic control analysis; Metabolic regulation (Korzeniewski, B. 215)

Oxygen consumption
Horseradish peroxidase; Indole-3-acetic acid oxidation; Free radical chain reaction; Transient state kinetics; P-670 (Krylov, S.N. 325)

P-670
Horseradish peroxidase; Indole-3-acetic acid oxidation; Free radical chain reaction; Transient state kinetics; Oxygen consumption (Krylov, S.N. 325)

Packing constraints
Phospholipids; Cholesterol; Light scattering; Electron microscopy; Lateral pressure (Schürholz, T. 87)

Partition coefficients
Association isotherms; Liposomes; Mastoparan; Salt effects; Thermodynamics (Schwarz, G. 67)

Passive electrical properties
Skin; Electrical impedance; Time dependence (Pliquett, F. 205)

Percolation
Microemulsion; Electric field; Dynamics of electric birefringence; Gelatin (Schlicht, L. 39)

Phase transition temperature
Liposomes; Thin liquid film; Marangoni–Gibbs effects (Vassilieff, C.S. 97)

Phorbol
Protein kinase C; Vesicles; Micelles; Fluorimetry; Diacylglycerol; Reorientation (Pap, E.H.W. 255)

Phosphatidylcholine
Marker efflux; Carboxyfluorescein; FITC-dextran; Fusion; Dynamic light scattering (Rex, S. 75)

Phospholipids
Cholesterol; Light scattering; Electron microscopy; Lateral pressure; Packing constraints (Schürholz, T. 87)

Polarized fluorescence
Electro-fluorescence; DNA binding; Anti-cancer agents; Carcinogens (Windsor, S.A. 141)

Polyacrylamide gels
Sequencing; Gel electrophoresis; Reptation; DNA separation (Sturm, J. 151)

Polyelectrolytes
Electric polarizability; Dielectric dispersion; Birefringence, electric; Light scattering, electric; Colloids; Escherichia coli; Poly(tetrafluoroethylene) (Stoylov, S.P. 165)

Poly(tetrafluoroethylene)
Electric polarizability; Dielectric dispersion; Birefringence, electric; Light scattering, electric; Polyelectrolytes; Colloids; Escherichia coli (Stoylov, S.P. 165)

Pre-crystallization
Small angle neutron scattering; Small angle X-ray scattering; Lysozyme; Aggregates; Time evolution (Minezaki, Y. 355)

Protein kinase C
Vesicles; Micelles; Fluorimetry; Diacylglycerol; Phorbol; Reorientation (Pap, E.H.W. 255)

Red cells
Viscosity of blood; Colloid coagulation; Rouleaux; Blood; Shear rate; Aggregation (Chen, J. 273)

Reduced dichroism
Electric dichroism; Dipole moment; Rotational relaxation (Schönknecht, T. 21)

Reorientation
Protein kinase C; Vesicles; Micelles; Fluorimetry; Diacylglycerol; Phorbol (Pap, E.H.W. 255)

Reptation
Sequencing; Gel electrophoresis; DNA separation; Polyacrylamide gels (Sturm, J. 151)

Resonance energy transfer
Detergents, non-ionic; Lipid bilayer; Fluorescence, time-resolved; Surface area; Critical packing parameter (Lantzsch, G. 289)

Review
Electric linear dichroism; Intercalation; Groove binding; DNA; Sequence selectivity (Colson, P. 125)

RNA
Folding; Entropy loss, sequential minimization; Biopolymers (Fernández, A. 335)

Rotational relaxation
Electric dichroism; Dipole moment; Reduced dichroism (Schönknecht, T. 21)

Rouleaux
Viscosity of blood; Colloid coagulation; Blood; Red cells; Shear rate; Aggregation (Chen, J. 273)

Salt effects
Association isotherms; Liposomes; Mastoparan; Partition coefficients; Thermodynamics (Schwarz, G. 67)

Sequence selectivity
Review; Electric linear dichroism; Intercalation; Groove binding; DNA (Colson, P. 125)

Sequencing
Gel electrophoresis; Reptation; DNA separation; Polyacrylamide gels (Sturm, J. 151)

Shear rate
Viscosity of blood; Colloid coagulation; Rouleaux; Blood; Red cells; Aggregation (Chen, J. 273)

Sigmoidal transition
Stochastic model; Markov chain; Cooperativity; Fractal dimension; Computer simulation (Abundo, M. 313)

Signal propagation
Molecular dynamics simulations; Transmembrane helix; c-*erb*B2 protein; Correlated motions (Garnier, N. 225)

Skin
Passive electrical properties; Electrical impedance; Time dependence (Pliquett, F. 205)

Sliding
Actin; ATP; Fluctuation; Myosin (Hatori, K. 267)

Small angle neutron scattering
Small angle X-ray scattering; Lysozyme; Pre-crystallization; Aggregates; Time evolution (Minezaki, Y. 355)

Small angle X-ray scattering
Small angle neutron scattering; Lysozyme; Pre-crystallization; Aggregates; Time evolution (Minezaki, Y. 355)

Spectrophotometry
Blood; Haemin; Glutathione; Interferometry; Erythrocytes (Sahini, V.Em. 245)

Stochastic model
Markov chain; Cooperativity; Sigmoidal transition; Fractal dimension; Computer simulation (Abundo, M. 313)

Supercoiled DNA
DNA–ligand interaction; Conformational transitions; Non-B DNA; Two-state model (Lahiri, A. 239)

Surface area
Detergents, non-ionic; Lipid bilayer; Resonance energy transfer; Fluorescence, time-resolved; Critical packing parameter (Lantzsch, G. 289)

Surfactants
Water-in-oil microemulsions; Interfacial charge transport; Nanodroplets; Ion mobility (Eicke, H.-F. 29)

Thermal activation
Bound water; Electron paramagnetic resonance; Fluoride complex; Freezing effects; Heme proteins (Yang, A.-S. 341)

Thermodynamics
Association isotherms; Liposomes; Mastoparan; Partition coefficients; Salt effects (Schwarz, G. 67)

Thin liquid film
Liposomes; Marangoni–Gibbs effects; Phase transition temperature (Vassilieff, C.S. 97)

Time dependence
Skin; Passive electrical properties; Electrical impedance (Pliquett, F. 205)

Time evolution
Small angle neutron scattering; Small angle X-ray scattering; Lysozyme; Pre-crystallization; Aggregates (Minezaki, Y. 355)

Transdermal transport
Fluorescence microscopy; Electroporation (Pliquett, U.F. 185)

Transient electric birefringence
Colloids (Matsumoto, M. 173)

Transient state kinetics
Horseradish peroxidase; Indole-3-acetic acid oxidation; Free radical chain reaction; Oxygen consumption; P-670 (Krylov, S.N. 325)

Transmembrane helix
Molecular dynamics simulations; c-*erb*B2 protein; Correlated motions; Signal propagation (Garnier, N. 225)

Turbidity dichroism
Vesicles; Electroporation; Lipids; Membranes; Diphenylhexatriene (Kakorin, S. 109)

Two-state model
DNA–ligand interaction; Supercoiled DNA; Conformational transitions; Non-B DNA (Lahiri, A. 239)

Tyrosine fluorescence
Galanin; Energy transfer; Molecular mechanics (Wiczk, W. 303)

Vesicles
Electroporation; Turbidity dichroism; Lipids; Membranes; Diphenylhexatriene (Kakorin, S. 109)

Protein kinase C; Micelles; Fluorimetry; Diacylglycerol; Phorbol; Reorientation (Pap, E.H.W. 255)

Viscosity of blood
Colloid coagulation; Rouleaux; Blood; Red cells; Shear rate; Aggregation (Chen, J. 273)

Vitrified aqueous lamella
Dimyristoyl phosphatidylcholine vesicles; Lipid-phase transition; Laser temperature jump; Cryo-electron microscopy (Groll, R. 53)

Water-in-oil microemulsions
Interfacial charge transport; Surfactants; Nanodroplets; Ion mobility (Eicke, H.-F. 29)